Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Currently amended): In combination: An apparatus comprising:

a probe card for testing a die on a wafer;

an energy transmissive element located adjacent to said probe card at a portion of said probe card; and

a temperature sensor located near said energy transmissive element for monitoring temperature corresponding to deflection of said probe card,

wherein said energy transmissive element utilizes energy transmitted to selectively deflect a portion of said probe card to selectively control the geometric planarity of said probe card.

Claim 2 (Currently amended): The combination apparatus of claim 1 wherein said energy transmissive element is located generally along a perimeter of said probe card.

Claim 3 (Currently amended): The <u>combination apparatus</u> of claim 2 wherein said energy transmissive element is a thermal element employing thermal energy to selectively deflect a portion of said probe card.

Appl. No. 10/003,012

Amdt. dated September 8, 2004

Reply to Office Action of April 8, 2004

Claim 4 (Canceled)

Claim 5 (Currently amended): The combination of claim 4 and apparatus of claim 1 further

including comprising a stiffening element attached to a face of said probe card and adapted to

provide structural resistance to planarity deflection of said prove card.

Claim 6 (Withdrawn): The combination apparatus of claim 5 and further comprising means for

facilitating radial expansion/contraction of said probe card with respect to said stiffening

element.

Claim 7 (Withdrawn): The combination apparatus of claim 6 and further including comprising a

multi-layer element having a first layer and a second layer, said first layer and said second layer

having different rates of expansion per unit of energy, said multi-layer element being attached to

said probe card, wherein exposing said multi-layer element to energy causes said multi-layer

element to selectively impart deflective forces to a portion of said probe card.

Claim 8 (Withdrawn): The combination apparatus of claim 7 wherein said multi-layer element

includes two layers of different metals/alloys having a different coefficient of thermal expansion

than the other.

Claim 9 (Withdrawn): The combination apparatus of claim 8 wherein said multi-layer element

is located generally along a perimeter of said probe card.

Claim 10 (Currently amended): The combination apparatus of claim 1 wherein said energy

transmissive element is a thermal element employing thermal energy to selectively deflect a

portion of said probe card.

Claim 11 (Canceled)

Page 4 of 11

Claim 12 (Currently amended): The eombination apparatus of claim 1 and further including comprising a stiffening element attached to a face of said probe card and adapted to provide structural resistance to planarity deflection of said probe card.

Claim 13 (Withdrawn): The eombination apparatus of claim 1 and further comprising means for facilitating radial expansion/contraction of said probe card with respect to said stiffening element.

Claim 14 (Withdrawn): The eombination apparatus of claim 1 and further including comprising a multi-layer element having a first layer and a second layer, said first layer and said second layer having different rates of expansion per unit of energy, said multi-layer element being attached to said probe card, wherein exposing said multi-layer element to energy causes said multi-layer element to selectively impart deflective forces to a portion of said probe card.

Claim 15 (Withdrawn): The eombination apparatus of claim 14 wherein said multi-layer element includes two layers of different metals/alloys having a different coefficient of thermal expansion than the other.

Claim 16 (Withdrawn): The combination apparatus of claim 15 wherein said multi-layer element is located generally along a perimeter of said probe card.

Claims 17-26 (Canceled)

Claim 27 (New): An apparatus comprising:

a probe card, wherein said probe card is part of an apparatus with a plurality of probes disposed to contact an electronic device to be tested; and

an energy transmissive element disposed to counteract thermally induced bowing of said probe card.

Appl. No. 10/003,012 Amdt. dated September 8, 2004 Reply to Office Action of April 8, 2004

Claim 28 (New): The apparatus of claim 27, wherein:

said probe card comprises a device side that faces said electronic device to be tested and a second side opposite said device side, and

said energy transmissive element is disposed to affect a temperature on said device side of said probe card.

Claim 29 (New): The apparatus of claim 28 further comprising another energy transmissive element disposed to affect a temperature on said second side of said probe card.

Claim 30 (New): The apparatus of claim 27 wherein:

said probe card comprises a device side that faces said electronic device to be tested and a second side opposite said device side,

said apparatus further comprises a plurality of said energy transmissive elements disposed to affect selectively and independently a temperature on said device said of said probe card and a temperature on said second side of said probe.

Claim 31 (New): The apparatus of claim 27 further comprising a temperature sensor disposed to monitor a temperature corresponding to said thermally induced bowing of said probe card.

Claim 32 (Withdrawn): The apparatus of claim 27 further comprising means for facilitating radial expansion/contraction of said probe card.

Claim 33 (Withdrawn): The apparatus of claim 32 further comprising a multi-layer element comprising a first layer and a second layer, said first layer and said second layer having different thermal coefficients of expansion, said multi-layer element being disposed to impart deflective forces to at least a portion of said probe card when exposed to energy.

Claim 34 (Withdrawn): The apparatus of claim 27 further comprising a multi-layer element comprising a first layer and a second layer, said first layer and said second layer having different thermal coefficients of expansion, said multi-layer element being disposed to impart deflective forces to at least a portion of said probe card when exposed to energy.

Claim 35 (New): An apparatus comprising:

a probe card, wherein said probe card is part of an apparatus with a plurality of probes disposed to contact an electronic device to be tested, said probe card comprising a device side that faces said electronic device to be tested and a second side opposite said device side; and

means for reducing a temperature gradient between said device side of said probe card and said second side of said probe card.

Claim 36 (New): The apparatus of claim 35, wherein said means for reducing a temperature gradient is disposed on at least one of said device side and said second side of said probe card.

Claim 37 (New): The apparatus of claim 35, wherein said means for reducing a temperature gradient is configured to affect independently a first temperature on said device side of said probe card and a second temperature on said second side of said probe card.

Claim 38 (New): The apparatus of claim 37 further comprising a plurality of temperature sensors disposed to monitor said first temperature on said device side of said probe card and said second temperature on said second side of said probe card.

Claim 39 (New): The apparatus of claim 35, wherein said means for reducing a temperature gradient is configured to affect a temperature on said second side of said probe card.

Claim 40 (New): The apparatus of claim 39, wherein testing of said electronic device induces said temperature gradient.

Claim 41 (New): The apparatus of claim 40 further comprising a temperature sensor disposed to monitor a temperature on said device side of said probe card.

Claim 42 (Withdrawn): The apparatus of claim 35 further comprising means for facilitating radial expansion/contraction of said probe card.

Appl. No. 10/003,012 Amdt. dated September 8, 2004 Reply to Office Action of April 8, 2004

Claim 43 (Withdrawn): The apparatus of claim 42 further comprising a multi-layer element comprising a first layer and a second layer, said first layer and said second layer having different thermal coefficients of expansion, said multi-layer element being disposed to impart deflective forces to at least a portion of said probe card when exposed to energy.

Claim 44 (Withdrawn): The apparatus of claim 35 further comprising a multi-layer element comprising a first layer and a second layer, said first layer and said second layer having different thermal coefficients of expansion, said multi-layer element being disposed to impart deflective forces to at least a portion of said probe card when exposed to energy.